



July 30, 2021

Andy Warnick  
Rosemont Copper Company  
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TEL (520) 400-0085  
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Work Order No.: 21G0388  
Order Name: Baseline Stormwater  
Monitoring

RE: Baseline Stormwater Monitoring

Dear Andy Warnick,

Turner Laboratories, Inc. received 4 sample(s) on 07/14/2021 for the analyses presented in the following report.

All results are intended to be considered in their entirety, and Turner Laboratories, Inc. is not responsible for use of less than the complete report. Results apply only to the samples analyzed. Samples will be disposed of 30 days after issue of our report unless special arrangements are made.

The pages that follow may contain sensitive, privileged or confidential information intended solely for the addressee named above. If you receive this message and are not the agent or employee of the addressee, this communication has been sent in error. Please do not disseminate or copy any of the attached and notify the sender immediately by telephone. Please also return the attached sheet(s) to the sender by mail.

Please call if you have any questions.

Respectfully submitted,

Turner Laboratories, Inc.  
ADHS License AZ0066

Elizabeth Kasik  
Laboratory Director

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21G0388  
**Date Received:** 07/14/2021

**Order: Baseline Stormwater Monitoring**

**Work Order Sample Summary**

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<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Matrix</b>	<b>Collection Date/Time</b>
21G0388-01	BC2-071221	Storm Water	07/12/2021 2345
21G0388-02	BCD-071221	Storm Water	07/12/2021 2345
21G0388-03	DC3-071221	Storm Water	07/12/2021 2245
21G0388-04	DCD-071221	Storm Water	07/12/2021 2245

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21G0388  
**Date Received:** 07/14/2021

**Case Narrative**

- D5 Minimum Reporting Limit (MRL) is adjusted due to sample dilution; analyte was non-detect in the sample.
  - E4 Concentration estimated. Analyte was detected below laboratory Minimum Reporting Limit (MRL) but above MDL.
  - E8 Analyte reported to MDL per project specification. Target analyte was not detected in the sample.
  - H3 Sample was received and/or analysis requested past holding time.
  - H5 This test is specified to be performed in the field within 15 minutes of sampling; sample was received and analyzed past the regulatory holding time.
  - M1 Matrix spike recovery was high; the associated LCS/LCSD was acceptable.
  - M2 Matrix spike recovery was low; the associated LCS/LCSD was acceptable.
  - M6 Matrix spike recovery was high. Data reported per ADEQ policy 0154.000. Matrix interference was confirmed.
  - Q9 Insufficient sample received to meet method QC requirements.
- All soil, sludge, and solid matrix determinations are reported on a wet weight basis unless otherwise noted.
- ND Not Detected at or above the PQL
  - PQL Practical Quantitation Limit
  - DF Dilution Factor

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21G0388  
**Lab Sample ID:** 21G0388-01

**Client Sample ID:** BC2-071221  
**Collection Date/Time:** 07/12/2021 2345  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
<b>Hardness, Dissolved-[CALC]</b>								
Hardness, Calcium/Magnesium (As CaCO3) Dissolved	62	22		mg/L	1	07/20/2021 1355	07/22/2021 1601	MH
<b>Hardness-Calculation</b>								
Hardness, Calcium/Magnesium (As CaCO3)	1400			mg/L	1	07/21/2021 1200	07/27/2021 1652	CR
<b>Total Nitrogen (NO2+NO3+TKN)-Calculation</b>								
Nitrogen, Total	49			mg/L	10	07/19/2021 1600	07/20/2021 1313	JG
<b>Nitrate + Nitrite Sum-Calculation</b>								
Nitrate and Nitrite Sum	1.4	0.10		mg/L	1	07/14/2021 1655	07/14/2021 2307	JG
<b>ICP Dissolved Metals-E 200.7 (4.4)</b>								
Boron	0.055	0.10	E4	mg/L	1	07/20/2021 1355	07/22/2021 1602	MH
Calcium	25	4.0		mg/L	1	07/20/2021 1355	07/22/2021 1601	MH
Iron	ND	0.30		mg/L	1	07/20/2021 1355	07/23/2021 1229	MH
Magnesium	ND	3.0		mg/L	1	07/20/2021 1355	07/22/2021 1601	MH
Potassium	ND	5.0		mg/L	1	07/20/2021 1355	07/22/2021 1601	MH
Silica	8.3	0.20		mg/L	1	07/20/2021 1355	07/22/2021 1602	MH
Sodium	ND	5.0		mg/L	1	07/20/2021 1355	07/22/2021 1601	MH
<b>ICP/MS Dissolved Metals-E 200.8 (5.4)</b>								
Aluminum	ND	0.0400		mg/L	1	07/20/2021 1355	07/26/2021 1247	CR
Antimony	0.0021	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1635	CR
Arsenic	0.0027	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1635	CR
Barium	0.068	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1635	CR
Beryllium	ND	0.00025		mg/L	1	07/20/2021 1355	07/26/2021 1247	CR
Cadmium	ND	0.00025		mg/L	1	07/20/2021 1355	07/23/2021 1635	CR
Chromium	ND	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1635	CR
Cobalt	0.00095	0.00025		mg/L	1	07/20/2021 1355	07/23/2021 1635	CR
Copper	0.0087	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1635	CR
Lead	0.00085	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1635	CR
Manganese	0.32	0.00025		mg/L	1	07/20/2021 1355	07/23/2021 1635	CR
Molybdenum	0.0030	0.00025		mg/L	1	07/20/2021 1355	07/23/2021 1635	CR
Nickel	0.0014	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1635	CR
Selenium	0.00029	0.0025		mg/L	1	07/20/2021 1355	07/23/2021 1635	CR
Silver	0.00032	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1635	CR
Thallium	ND	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1635	CR
Zinc	ND	0.040		mg/L	1	07/20/2021 1355	07/23/2021 1635	CR

CVAA Dissolved Mercury-E 245.1

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21G0388  
**Lab Sample ID:** 21G0388-01

**Client Sample ID:** BC2-071221  
**Collection Date/Time:** 07/12/2021 2345  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Mercury	ND	0.0010	E8	mg/L	1	07/26/2021 0800	07/26/2021 1308	MH
<b>pH-E150.1</b>								
pH (pH Units)	7.5		H5	-	1	07/16/2021 1430	07/16/2021 1515	CWB
Temperature (°C)	22		H5	-	1	07/16/2021 1430	07/16/2021 1515	CWB
<b>Turbidity-E180.1</b>								
Turbidity	7000	100	H3	NTU	1000	07/23/2021 1045	07/23/2021 1115	CWB
<b>ICP Total Metals-E200.7 (4.4)</b>								
Boron	0.34	0.50	E4	mg/L	1	07/21/2021 1200	07/27/2021 1652	CR
Calcium	470	20		mg/L	1	07/21/2021 1200	07/27/2021 1652	CR
Iron	170	1.5		mg/L	1	07/21/2021 1200	07/27/2021 1652	CR
Magnesium	67	15		mg/L	1	07/21/2021 1200	07/27/2021 1652	CR
Potassium	59	25		mg/L	1	07/21/2021 1200	07/27/2021 1652	CR
Silica	590	10		mg/L	10	07/21/2021 1200	07/28/2021 1338	MH
Sodium	ND	25	D5	mg/L	1	07/21/2021 1200	07/27/2021 1652	CR
<b>ICP/MS Total Metals-E200.8 (5.4)</b>								
Aluminum	148	10.0		mg/L	50	07/23/2021 0930	07/27/2021 1611	CR
Antimony	ND	0.025	D5	mg/L	10	07/23/2021 0930	07/26/2021 1842	CR
Arsenic	0.046	0.025		mg/L	10	07/23/2021 0930	07/26/2021 1842	CR
Barium	4.0	0.025		mg/L	10	07/23/2021 0930	07/26/2021 1842	CR
Beryllium	0.013	0.013		mg/L	10	07/23/2021 0930	07/26/2021 1842	CR
Cadmium	ND	0.013	D5	mg/L	10	07/23/2021 0930	07/26/2021 1842	CR
Chromium	0.046	0.025		mg/L	10	07/23/2021 0930	07/26/2021 1842	CR
Cobalt	0.0727	0.0125		mg/L	10	07/23/2021 0930	07/26/2021 1842	CR
Copper	0.41	0.025		mg/L	10	07/23/2021 0930	07/26/2021 1842	CR
Lead	0.68	0.025		mg/L	10	07/23/2021 0930	07/26/2021 1842	CR
Manganese	9.0	0.013		mg/L	10	07/23/2021 0930	07/26/2021 1842	CR
Molybdenum	ND	0.013	D5	mg/L	10	07/23/2021 0930	07/26/2021 1842	CR
Nickel	0.075	0.025		mg/L	10	07/23/2021 0930	07/26/2021 1842	CR
Selenium	0.16	0.13		mg/L	10	07/23/2021 0930	07/26/2021 1842	CR
Silver	ND	0.025	E8	mg/L	10	07/23/2021 0930	07/26/2021 1842	CR
Thallium	0.0026	0.025	E4	mg/L	10	07/23/2021 0930	07/26/2021 1842	CR
Uranium	0.0043	0.025	E4	mg/L	10	07/23/2021 0930	07/26/2021 1842	CR
Zinc	ND	2.0	D5	mg/L	10	07/23/2021 0930	07/26/2021 1842	CR
<b>CVAA Total Mercury-E245.1</b>								
Mercury	ND	0.010	E8	mg/L	1	07/27/2021 0829	07/27/2021 1332	MH

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21G0388  
**Lab Sample ID:** 21G0388-01

**Client Sample ID:** BC2-071221  
**Collection Date/Time:** 07/12/2021 2345  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
<b>Anions by Ion Chromatography-E300.0 (2.1)</b>								
Chloride	1.6	1.0		mg/L	1	07/14/2021 1655	07/14/2021 2307	JG
Fluoride	ND	0.50		mg/L	1	07/14/2021 1655	07/14/2021 2307	JG
Nitrogen, Nitrate (As N)	1.2	0.50		mg/L	1	07/14/2021 1655	07/14/2021 2307	JG
Nitrogen, Nitrite (As N)	0.16	0.10		mg/L	1	07/14/2021 1655	07/14/2021 2307	JG
Phosphorus, Dissolved Orthophosphate (As P)	ND	0.50		mg/L	1	07/14/2021 1655	07/14/2021 2307	JG
Sulfate	ND	5.0		mg/L	1	07/14/2021 1655	07/14/2021 2307	JG
<b>Calculation-Ion Balance</b>								
Anion	10.2			meq/L	1	07/30/2021 1139	07/30/2021 1143	ECK
Cation	1.26			meq/L	1	07/30/2021 1139	07/30/2021 1143	ECK
Cation/Anion, % Difference	77.9			meq/L	1	07/30/2021 1139	07/30/2021 1143	ECK
<b>Total Kjeldahl Nitrogen-PAI-DK01</b>								
Nitrogen, Total Kjeldahl	47	5.0		mg/L	10	07/19/2021 1600	07/20/2021 1313	JG
<b>Alkalinity-SM2320B</b>								
Alkalinity, Bicarbonate (As CaCO3)	480	2.0		mg/L	1	07/26/2021 1125	07/26/2021 1637	EJ
Alkalinity, Carbonate (As CaCO3)	ND	2.0		mg/L	1	07/26/2021 1125	07/26/2021 1637	EJ
Alkalinity, Hydroxide (As CaCO3)	ND	2.0		mg/L	1	07/26/2021 1125	07/26/2021 1637	EJ
Alkalinity, Phenolphthalein (As CaCO3)	ND	2.0		mg/L	1	07/26/2021 1125	07/26/2021 1637	EJ
Alkalinity, Total (As CaCO3)	480	2.0		mg/L	1	07/26/2021 1125	07/26/2021 1637	EJ
<b>Specific Conductance-SM2510 B</b>								
Conductivity	250	0.10		µmhos/cm	1	07/29/2021 1635	07/29/2021 1712	CWB
<b>Total Dissolved Solids (Residue, Filterable)-SM2540 C</b>								
Total Dissolved Solids (Residue, Filterable)	340	20		mg/L	1	07/16/2021 0832	07/21/2021 1713	JG
<b>Total Suspended Solids (Residue, Non-Filterable)-SM2540 D</b>								
Total Suspended Solids	26000	10		mg/L	1	07/16/2021 0939	07/17/2021 1230	EJ

**Ammonia as N-SM4500-NH3 B,C**

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21G0388  
**Lab Sample ID:** 21G0388-01

**Client Sample ID:** BC2-071221  
**Collection Date/Time:** 07/12/2021 2345  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Nitrogen, Ammonia (As N)	ND	0.50		mg/L	1	07/22/2021 0800	07/22/2021 1320	JG
<b>Silica-SM4500-SiO2 C</b>								
Silica	16	10		mg/L	5	07/28/2021 1230	07/28/2021 1710	JG

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21G0388  
**Lab Sample ID:** 21G0388-02

**Client Sample ID:** BCD-071221  
**Collection Date/Time:** 07/12/2021 2345  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
<b>Hardness, Dissolved-[CALC]</b>								
Hardness, Calcium/Magnesium (As CaCO3) Dissolved	61	22		mg/L	1	07/20/2021 1355	07/22/2021 1605	MH
<b>Hardness-Calculation</b>								
Hardness, Calcium/Magnesium (As CaCO3)	1500			mg/L	1	07/21/2021 1200	07/27/2021 1710	CR
<b>Total Nitrogen (NO2+NO3+TKN)-Calculation</b>								
Nitrogen, Total	39			mg/L	10	07/19/2021 1600	07/20/2021 1313	JG
<b>Nitrate + Nitrite Sum-Calculation</b>								
Nitrate and Nitrite Sum	1.7	0.10		mg/L	1	07/14/2021 1655	07/14/2021 2326	JG
<b>ICP Dissolved Metals-E 200.7 (4.4)</b>								
Boron	0.053	0.10	E4	mg/L	1	07/20/2021 1355	07/22/2021 1606	MH
Calcium	25	4.0		mg/L	1	07/20/2021 1355	07/22/2021 1605	MH
Iron	ND	0.30		mg/L	1	07/20/2021 1355	07/23/2021 1233	MH
Magnesium	ND	3.0		mg/L	1	07/20/2021 1355	07/22/2021 1605	MH
Potassium	ND	5.0		mg/L	1	07/20/2021 1355	07/22/2021 1605	MH
Silica	8.2	0.20		mg/L	1	07/20/2021 1355	07/22/2021 1606	MH
Sodium	ND	5.0		mg/L	1	07/20/2021 1355	07/22/2021 1605	MH
<b>ICP/MS Dissolved Metals-E 200.8 (5.4)</b>								
Aluminum	ND	0.0800	D5	mg/L	2	07/20/2021 1355	07/26/2021 1353	CR
Antimony	0.0021	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1751	CR
Arsenic	0.0026	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1751	CR
Barium	0.066	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1751	CR
Beryllium	ND	0.00050	D5	mg/L	2	07/20/2021 1355	07/26/2021 1353	CR
Cadmium	ND	0.00025		mg/L	1	07/20/2021 1355	07/23/2021 1751	CR
Chromium	ND	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1751	CR
Cobalt	0.00090	0.00025		mg/L	1	07/20/2021 1355	07/23/2021 1751	CR
Copper	0.0074	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1751	CR
Lead	0.00058	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1751	CR
Manganese	0.30	0.00025		mg/L	1	07/20/2021 1355	07/23/2021 1751	CR
Molybdenum	0.0031	0.00025		mg/L	1	07/20/2021 1355	07/23/2021 1751	CR
Nickel	0.00076	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1751	CR
Selenium	0.00029	0.0025		mg/L	1	07/20/2021 1355	07/23/2021 1751	CR
Silver	ND	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1751	CR
Thallium	ND	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1751	CR
Zinc	ND	0.040		mg/L	1	07/20/2021 1355	07/23/2021 1751	CR

CVAA Dissolved Mercury-E 245.1

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21G0388  
**Lab Sample ID:** 21G0388-02

**Client Sample ID:** BCD-071221  
**Collection Date/Time:** 07/12/2021 2345  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Mercury	ND	0.0010	E8	mg/L	1	07/26/2021 0800	07/26/2021 1310	MH
<b>pH-E150.1</b>								
pH (pH Units)	7.5		H5	-	1	07/16/2021 1430	07/16/2021 1516	CWB
Temperature (°C)	24		H5	-	1	07/16/2021 1430	07/16/2021 1516	CWB
<b>Turbidity-E180.1</b>								
Turbidity	7700	100	H3	NTU	1000	07/23/2021 1045	07/23/2021 1115	CWB
<b>ICP Total Metals-E200.7 (4.4)</b>								
Boron	0.37	0.50	E4	mg/L	1	07/21/2021 1200	07/27/2021 1710	CR
Calcium	470	20		mg/L	1	07/21/2021 1200	07/27/2021 1710	CR
Iron	170	1.5		mg/L	1	07/21/2021 1200	07/27/2021 1710	CR
Magnesium	67	15		mg/L	1	07/21/2021 1200	07/27/2021 1710	CR
Potassium	62	25		mg/L	1	07/21/2021 1200	07/27/2021 1710	CR
Silica	600	10		mg/L	10	07/21/2021 1200	07/28/2021 1342	MH
Sodium	ND	25	D5	mg/L	1	07/21/2021 1200	07/27/2021 1710	CR
<b>ICP/MS Total Metals-E200.8 (5.4)</b>								
Aluminum	124	10.0		mg/L	50	07/23/2021 0930	07/27/2021 1615	CR
Antimony	ND	0.025	D5	mg/L	10	07/23/2021 0930	07/26/2021 1846	CR
Arsenic	0.045	0.025		mg/L	10	07/23/2021 0930	07/26/2021 1846	CR
Barium	4.2	0.025		mg/L	10	07/23/2021 0930	07/26/2021 1846	CR
Beryllium	0.013	0.013		mg/L	10	07/23/2021 0930	07/26/2021 1846	CR
Cadmium	ND	0.013	D5	mg/L	10	07/23/2021 0930	07/26/2021 1846	CR
Chromium	0.047	0.025		mg/L	10	07/23/2021 0930	07/26/2021 1846	CR
Cobalt	0.0747	0.0125		mg/L	10	07/23/2021 0930	07/26/2021 1846	CR
Copper	0.40	0.025		mg/L	10	07/23/2021 0930	07/26/2021 1846	CR
Lead	0.69	0.025		mg/L	10	07/23/2021 0930	07/26/2021 1846	CR
Manganese	9.7	0.013		mg/L	10	07/23/2021 0930	07/26/2021 1846	CR
Molybdenum	ND	0.013	D5	mg/L	10	07/23/2021 0930	07/26/2021 1846	CR
Nickel	0.081	0.025		mg/L	10	07/23/2021 0930	07/26/2021 1846	CR
Selenium	0.15	0.13		mg/L	10	07/23/2021 0930	07/26/2021 1846	CR
Silver	ND	0.025	E8	mg/L	10	07/23/2021 0930	07/26/2021 1846	CR
Thallium	0.0023	0.025	E4	mg/L	10	07/23/2021 0930	07/26/2021 1846	CR
Uranium	0.0043	0.025	E4	mg/L	10	07/23/2021 0930	07/26/2021 1846	CR
Zinc	ND	2.0	D5	mg/L	10	07/23/2021 0930	07/26/2021 1846	CR
<b>CVAA Total Mercury-E245.1</b>								
Mercury	ND	0.0050	E8	mg/L	1	07/27/2021 0829	07/27/2021 1345	MH

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21G0388  
**Lab Sample ID:** 21G0388-02

**Client Sample ID:** BCD-071221  
**Collection Date/Time:** 07/12/2021 2345  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
<b>Anions by Ion Chromatography-E300.0 (2.1)</b>								
Chloride	1.7	1.0		mg/L	1	07/14/2021 1655	07/14/2021 2326	JG
Fluoride	ND	0.50		mg/L	1	07/14/2021 1655	07/14/2021 2326	JG
Nitrogen, Nitrate (As N)	1.5	0.50		mg/L	1	07/14/2021 1655	07/14/2021 2326	JG
Nitrogen, Nitrite (As N)	0.18	0.10		mg/L	1	07/14/2021 1655	07/14/2021 2326	JG
Phosphorus, Dissolved Orthophosphate (As P)	ND	0.50		mg/L	1	07/14/2021 1655	07/14/2021 2326	JG
Sulfate	ND	5.0		mg/L	1	07/14/2021 1655	07/14/2021 2326	JG
<b>Calculation-Ion Balance</b>								
Anion	10.3			meq/L	1	07/30/2021 1139	07/30/2021 1143	ECK
Cation	1.26			meq/L	1	07/30/2021 1139	07/30/2021 1143	ECK
Cation/Anion, % Difference	78.3			meq/L	1	07/30/2021 1139	07/30/2021 1143	ECK
<b>Total Kjeldahl Nitrogen-PAI-DK01</b>								
Nitrogen, Total Kjeldahl	37	5.0		mg/L	10	07/19/2021 1600	07/20/2021 1313	JG
<b>Alkalinity-SM2320B</b>								
Alkalinity, Bicarbonate (As CaCO3)	490	2.0		mg/L	1	07/26/2021 1125	07/26/2021 1637	EJ
Alkalinity, Carbonate (As CaCO3)	ND	2.0		mg/L	1	07/26/2021 1125	07/26/2021 1637	EJ
Alkalinity, Hydroxide (As CaCO3)	ND	2.0		mg/L	1	07/26/2021 1125	07/26/2021 1637	EJ
Alkalinity, Phenolphthalein (As CaCO3)	ND	2.0		mg/L	1	07/26/2021 1125	07/26/2021 1637	EJ
Alkalinity, Total (As CaCO3)	490	2.0		mg/L	1	07/26/2021 1125	07/26/2021 1637	EJ
<b>Specific Conductance-SM2510 B</b>								
Conductivity	260	0.10		µmhos/cm	1	07/29/2021 1635	07/29/2021 1712	CWB
<b>Total Dissolved Solids (Residue, Filterable)-SM2540 C</b>								
Total Dissolved Solids (Residue, Filterable)	240	20		mg/L	1	07/16/2021 0832	07/21/2021 1713	JG
<b>Total Suspended Solids (Residue, Non-Filterable)-SM2540 D</b>								
Total Suspended Solids	14000	10		mg/L	1	07/16/2021 0939	07/17/2021 1230	EJ
<b>Ammonia as N-SM4500-NH3 B,C</b>								

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21G0388  
**Lab Sample ID:** 21G0388-02

**Client Sample ID:** BCD-071221  
**Collection Date/Time:** 07/12/2021 2345  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

<b>Analyses</b>	<b>Result</b>	<b>PQL</b>	<b>Qual</b>	<b>Units</b>	<b>DF</b>	<b>Prep Date</b>	<b>Analysis Date</b>	<b>Analyst</b>
Nitrogen, Ammonia (As N)	ND	0.50		mg/L	1	07/22/2021 0800	07/22/2021 1320	JG
<b>Silica-SM4500-SiO2 C</b>								
Silica	14	2.0		mg/L	1	07/28/2021 1230	07/28/2021 1710	JG

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21G0388  
**Lab Sample ID:** 21G0388-03

**Client Sample ID:** DC3-071221  
**Collection Date/Time:** 07/12/2021 2245  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
<b>Hardness, Dissolved-[CALC]</b>								
Hardness, Calcium/Magnesium (As CaCO3) Dissolved	54	22		mg/L	1	07/20/2021 1355	07/22/2021 1609	MH
<b>Hardness-Calculation</b>								
Hardness, Calcium/Magnesium (As CaCO3)	1200			mg/L	1	07/21/2021 1200	07/27/2021 1713	CR
<b>Total Nitrogen (NO2+NO3+TKN)-Calculation</b>								
Nitrogen, Total	32			mg/L	10	07/19/2021 1600	07/20/2021 1313	JG
<b>Nitrate + Nitrite Sum-Calculation</b>								
Nitrate and Nitrite Sum	1.1	0.10		mg/L	1	07/14/2021 1655	07/14/2021 2345	JG
<b>ICP Dissolved Metals-E 200.7 (4.4)</b>								
Boron	0.053	0.10	E4	mg/L	1	07/20/2021 1355	07/22/2021 1610	MH
Calcium	22	4.0		mg/L	1	07/20/2021 1355	07/22/2021 1609	MH
Iron	ND	0.30		mg/L	1	07/20/2021 1355	07/23/2021 1237	MH
Magnesium	ND	3.0		mg/L	1	07/20/2021 1355	07/22/2021 1609	MH
Potassium	ND	5.0		mg/L	1	07/20/2021 1355	07/22/2021 1609	MH
Silica	7.1	0.20		mg/L	1	07/20/2021 1355	07/22/2021 1610	MH
Sodium	ND	5.0		mg/L	1	07/20/2021 1355	07/22/2021 1609	MH
<b>ICP/MS Dissolved Metals-E 200.8 (5.4)</b>								
Aluminum	ND	0.0800	D5	mg/L	2	07/20/2021 1355	07/26/2021 1356	CR
Antimony	0.00060	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1754	CR
Arsenic	0.0039	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1754	CR
Barium	0.066	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1754	CR
Beryllium	ND	0.00050	D5	mg/L	2	07/20/2021 1355	07/26/2021 1356	CR
Cadmium	ND	0.00025		mg/L	1	07/20/2021 1355	07/23/2021 1754	CR
Chromium	ND	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1754	CR
Cobalt	0.00090	0.00025		mg/L	1	07/20/2021 1355	07/23/2021 1754	CR
Copper	0.011	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1754	CR
Lead	ND	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1754	CR
Manganese	0.29	0.00025		mg/L	1	07/20/2021 1355	07/23/2021 1754	CR
Molybdenum	0.0031	0.00025		mg/L	1	07/20/2021 1355	07/23/2021 1754	CR
Nickel	0.00099	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1754	CR
Selenium	0.00027	0.0025		mg/L	1	07/20/2021 1355	07/23/2021 1754	CR
Silver	ND	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1754	CR
Thallium	ND	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1754	CR
Zinc	ND	0.040		mg/L	1	07/20/2021 1355	07/23/2021 1754	CR

CVAA Dissolved Mercury-E 245.1

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21G0388  
**Lab Sample ID:** 21G0388-03

**Client Sample ID:** DC3-071221  
**Collection Date/Time:** 07/12/2021 2245  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst	
Mercury	ND	0.0010	E8	mg/L	1	07/26/2021 0800	07/26/2021 1313	MH	
<b>pH-E150.1</b>									
pH (pH Units)	7.6		H5	-	1	07/16/2021 1430	07/16/2021 1517	CWB	
Temperature (°C)	24		H5	-	1	07/16/2021 1430	07/16/2021 1517	CWB	
<b>Turbidity-E180.1</b>									
Turbidity	7900	100	H3	NTU	1000	07/23/2021 1045	07/23/2021 1115	CWB	
<b>ICP Total Metals-E200.7 (4.4)</b>									
Boron	0.36	0.50	E4	mg/L	1	07/21/2021 1200	07/27/2021 1713	CR	
Calcium	360	20		mg/L	1	07/21/2021 1200	07/27/2021 1713	CR	
Iron	170	1.5		mg/L	1	07/21/2021 1200	07/27/2021 1713	CR	
Magnesium	66	15		mg/L	1	07/21/2021 1200	07/27/2021 1713	CR	
Potassium	50	25		mg/L	1	07/21/2021 1200	07/27/2021 1713	CR	
Silica	630	10		mg/L	10	07/21/2021 1200	07/28/2021 1345	MH	
Sodium	ND	25	D5	mg/L	1	07/21/2021 1200	07/27/2021 1713	CR	
<b>ICP/MS Total Metals-E200.8 (5.4)</b>									
Aluminum	119	10.0		mg/L	50	07/23/2021 0930	07/27/2021 1618	CR	
Antimony	ND	0.025	D5	mg/L	10	07/23/2021 0930	07/26/2021 1849	CR	
Arsenic	0.049	0.025		mg/L	10	07/23/2021 0930	07/26/2021 1849	CR	
Barium	2.8	0.025		mg/L	10	07/23/2021 0930	07/26/2021 1849	CR	
Beryllium	ND	0.013	D5	mg/L	10	07/23/2021 0930	07/26/2021 1849	CR	
Cadmium	ND	0.013	D5	mg/L	10	07/23/2021 0930	07/26/2021 1849	CR	
Chromium	0.052	0.025		mg/L	10	07/23/2021 0930	07/26/2021 1849	CR	
Cobalt	0.0606	0.0125		mg/L	10	07/23/2021 0930	07/26/2021 1849	CR	
Copper	0.62	0.025		mg/L	10	07/23/2021 0930	07/26/2021 1849	CR	
Lead	0.49	0.025		mg/L	10	07/23/2021 0930	07/26/2021 1849	CR	
Manganese	7.9	0.013		mg/L	10	07/23/2021 0930	07/26/2021 1849	CR	
Molybdenum	ND	0.013	D5	mg/L	10	07/23/2021 0930	07/26/2021 1849	CR	
Nickel	0.074	0.025		mg/L	10	07/23/2021 0930	07/26/2021 1849	CR	
Selenium	0.10	0.13	E4	mg/L	10	07/23/2021 0930	07/26/2021 1849	CR	
Silver	ND	0.025	E8	mg/L	10	07/23/2021 0930	07/26/2021 1849	CR	
Thallium	0.0021	0.025	E4	mg/L	10	07/23/2021 0930	07/26/2021 1849	CR	
Uranium	0.0036	0.025	E4	mg/L	10	07/23/2021 0930	07/26/2021 1849	CR	
Zinc	ND	2.0	D5	mg/L	10	07/23/2021 0930	07/26/2021 1849	CR	
<b>CVAA Total Mercury-E245.1</b>									
Mercury	ND	0.0050	E8	mg/L	1	07/27/2021 0829	07/27/2021 1347	MH	

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21G0388  
**Lab Sample ID:** 21G0388-03

**Client Sample ID:** DC3-071221  
**Collection Date/Time:** 07/12/2021 2245  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
<b>Anions by Ion Chromatography-E300.0 (2.1)</b>								
Chloride	1.8	1.0		mg/L	1	07/14/2021 1655	07/14/2021 2345	JG
Fluoride	ND	0.50		mg/L	1	07/14/2021 1655	07/14/2021 2345	JG
Nitrogen, Nitrate (As N)	0.96	0.50		mg/L	1	07/14/2021 1655	07/14/2021 2345	JG
Nitrogen, Nitrite (As N)	0.10	0.10		mg/L	1	07/14/2021 1655	07/14/2021 2345	JG
Phosphorus, Dissolved Orthophosphate (As P)	ND	0.50		mg/L	1	07/14/2021 1655	07/14/2021 2345	JG
Sulfate	ND	5.0		mg/L	1	07/14/2021 1655	07/14/2021 2345	JG
<b>Calculation-Ion Balance</b>								
Anion	12.2			meq/L	1	07/30/2021 1139	07/30/2021 1143	ECK
Cation	1.11			meq/L	1	07/30/2021 1139	07/30/2021 1143	ECK
Cation/Anion, % Difference	83.4			meq/L	1	07/30/2021 1139	07/30/2021 1143	ECK
<b>Total Kjeldahl Nitrogen-PAI-DK01</b>								
Nitrogen, Total Kjeldahl	30	5.0		mg/L	10	07/19/2021 1600	07/20/2021 1313	JG
<b>Alkalinity-SM2320B</b>								
Alkalinity, Bicarbonate (As CaCO3)	590	2.0		mg/L	1	07/26/2021 1125	07/26/2021 1637	EJ
Alkalinity, Carbonate (As CaCO3)	ND	2.0		mg/L	1	07/26/2021 1125	07/26/2021 1637	EJ
Alkalinity, Hydroxide (As CaCO3)	ND	2.0		mg/L	1	07/26/2021 1125	07/26/2021 1637	EJ
Alkalinity, Phenolphthalein (As CaCO3)	ND	2.0		mg/L	1	07/26/2021 1125	07/26/2021 1637	EJ
Alkalinity, Total (As CaCO3)	590	2.0		mg/L	1	07/26/2021 1125	07/26/2021 1637	EJ
<b>Specific Conductance-SM2510 B</b>								
Conductivity	210	0.10		µmhos/cm	1	07/29/2021 1635	07/29/2021 1712	CWB
<b>Total Dissolved Solids (Residue, Filterable)-SM2540 C</b>								
Total Dissolved Solids (Residue, Filterable)	250	20		mg/L	1	07/16/2021 0832	07/21/2021 1713	JG
<b>Total Suspended Solids (Residue, Non-Filterable)-SM2540 D</b>								
Total Suspended Solids	9800	10		mg/L	1	07/16/2021 0939	07/17/2021 1230	EJ
<b>Ammonia as N-SM4500-NH3 B,C</b>								

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21G0388  
**Lab Sample ID:** 21G0388-03

**Client Sample ID:** DC3-071221  
**Collection Date/Time:** 07/12/2021 2245  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Nitrogen, Ammonia (As N)	ND	0.50		mg/L	1	07/22/2021 0800	07/22/2021 1320	JG
<b>Silica-SM4500-SiO2 C</b>								
Silica	12	2.0		mg/L	1	07/28/2021 1230	07/28/2021 1710	JG

Client: Rosemont Copper Company  
 Project: Baseline Stormwater Monitoring  
 Work Order: 21G0388  
 Lab Sample ID: 21G0388-04

Client Sample ID: DCD-071221  
 Collection Date/Time: 07/12/2021 2245  
 Matrix: Storm Water  
 Order Name: Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
<b>Hardness, Dissolved-[CALC]</b>								
Hardness, Calcium/Magnesium (As CaCO3) Dissolved	53	22		mg/L	1	07/20/2021 1355	07/22/2021 1614	MH
<b>Hardness-Calculation</b>								
Hardness, Calcium/Magnesium (As CaCO3)	1100			mg/L	1	07/21/2021 1200	07/27/2021 1716	CR
<b>Total Nitrogen (NO2+NO3+TKN)-Calculation</b>								
Nitrogen, Total	29			mg/L	10	07/19/2021 1600	07/20/2021 1313	JG
<b>Nitrate + Nitrite Sum-Calculation</b>								
Nitrate and Nitrite Sum	1.0	0.10		mg/L	1	07/14/2021 1655	07/15/2021 0003	JG
<b>ICP Dissolved Metals-E 200.7 (4.4)</b>								
Boron	0.052	0.10	E4	mg/L	1	07/20/2021 1355	07/22/2021 1614	MH
Calcium	21	4.0		mg/L	1	07/20/2021 1355	07/22/2021 1613	MH
Iron	ND	0.30		mg/L	1	07/20/2021 1355	07/23/2021 1241	MH
Magnesium	ND	3.0		mg/L	1	07/20/2021 1355	07/22/2021 1614	MH
Potassium	ND	5.0		mg/L	1	07/20/2021 1355	07/22/2021 1613	MH
Silica	7.1	0.20		mg/L	1	07/20/2021 1355	07/22/2021 1614	MH
Sodium	ND	5.0		mg/L	1	07/20/2021 1355	07/22/2021 1614	MH
<b>ICP/MS Dissolved Metals-E 200.8 (5.4)</b>								
Aluminum	ND	0.0800	D5	mg/L	2	07/20/2021 1355	07/26/2021 1400	CR
Antimony	0.00056	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1758	CR
Arsenic	0.0035	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1758	CR
Barium	0.062	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1758	CR
Beryllium	ND	0.00050	D5	mg/L	2	07/20/2021 1355	07/26/2021 1400	CR
Cadmium	ND	0.00025		mg/L	1	07/20/2021 1355	07/23/2021 1758	CR
Chromium	ND	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1758	CR
Cobalt	0.00084	0.00025		mg/L	1	07/20/2021 1355	07/23/2021 1758	CR
Copper	0.010	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1758	CR
Lead	ND	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1758	CR
Manganese	0.19	0.00025		mg/L	1	07/20/2021 1355	07/23/2021 1758	CR
Molybdenum	0.0030	0.00025		mg/L	1	07/20/2021 1355	07/23/2021 1758	CR
Nickel	0.0010	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1758	CR
Selenium	0.00027	0.0025		mg/L	1	07/20/2021 1355	07/23/2021 1758	CR
Silver	ND	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1758	CR
Thallium	ND	0.00050		mg/L	1	07/20/2021 1355	07/23/2021 1758	CR
Zinc	ND	0.040		mg/L	1	07/20/2021 1355	07/23/2021 1758	CR

CVAA Dissolved Mercury-E 245.1

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21G0388  
**Lab Sample ID:** 21G0388-04

**Client Sample ID:** DCD-071221  
**Collection Date/Time:** 07/12/2021 2245  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Mercury	ND	0.0020	D5, E8	mg/L	1	07/26/2021 0800	07/26/2021 1315	MH
<b>pH-E150.1</b>								
pH (pH Units)	7.6		H5	-	1	07/16/2021 1430	07/16/2021 1521	CWB
Temperature (°C)	24		H5	-	1	07/16/2021 1430	07/16/2021 1521	CWB
<b>Turbidity-E180.1</b>								
Turbidity	10000	100	H3	NTU	1000	07/23/2021 1045	07/23/2021 1115	CWB
<b>ICP Total Metals-E200.7 (4.4)</b>								
Boron	0.32	0.50	E4	mg/L	1	07/21/2021 1200	07/27/2021 1716	CR
Calcium	350	20		mg/L	1	07/21/2021 1200	07/27/2021 1716	CR
Iron	170	1.5		mg/L	1	07/21/2021 1200	07/27/2021 1716	CR
Magnesium	65	15		mg/L	1	07/21/2021 1200	07/27/2021 1716	CR
Potassium	49	25		mg/L	1	07/21/2021 1200	07/27/2021 1716	CR
Silica	590	10		mg/L	10	07/21/2021 1200	07/28/2021 1349	MH
Sodium	ND	25	D5	mg/L	1	07/21/2021 1200	07/27/2021 1716	CR
<b>ICP/MS Total Metals-E200.8 (5.4)</b>								
Aluminum	128	10.0		mg/L	50	07/23/2021 0930	07/27/2021 1621	CR
Antimony	ND	0.025	D5	mg/L	10	07/23/2021 0930	07/26/2021 1852	CR
Arsenic	0.048	0.025		mg/L	10	07/23/2021 0930	07/26/2021 1852	CR
Barium	2.8	0.025		mg/L	10	07/23/2021 0930	07/26/2021 1852	CR
Beryllium	ND	0.013	D5	mg/L	10	07/23/2021 0930	07/26/2021 1852	CR
Cadmium	ND	0.013	D5	mg/L	10	07/23/2021 0930	07/26/2021 1852	CR
Chromium	0.053	0.025		mg/L	10	07/23/2021 0930	07/26/2021 1852	CR
Cobalt	0.0632	0.0125		mg/L	10	07/23/2021 0930	07/26/2021 1852	CR
Copper	0.63	0.025		mg/L	10	07/23/2021 0930	07/26/2021 1852	CR
Lead	0.51	0.025		mg/L	10	07/23/2021 0930	07/26/2021 1852	CR
Manganese	7.8	0.013		mg/L	10	07/23/2021 0930	07/26/2021 1852	CR
Molybdenum	ND	0.013	D5	mg/L	10	07/23/2021 0930	07/26/2021 1852	CR
Nickel	0.075	0.025		mg/L	10	07/23/2021 0930	07/26/2021 1852	CR
Selenium	0.11	0.13	E4	mg/L	10	07/23/2021 0930	07/26/2021 1852	CR
Silver	ND	0.025	E8	mg/L	10	07/23/2021 0930	07/26/2021 1852	CR
Thallium	0.0021	0.025	E4	mg/L	10	07/23/2021 0930	07/26/2021 1852	CR
Uranium	0.0037	0.025	E4	mg/L	10	07/23/2021 0930	07/26/2021 1852	CR
Zinc	ND	2.0	D5	mg/L	10	07/23/2021 0930	07/26/2021 1852	CR
<b>CVAA Total Mercury-E245.1</b>								
Mercury	ND	0.0050	E8	mg/L	1	07/27/2021 0829	07/27/2021 1350	MH

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21G0388  
**Lab Sample ID:** 21G0388-04

**Client Sample ID:** DCD-071221  
**Collection Date/Time:** 07/12/2021 2245  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
<b>Anions by Ion Chromatography-E300.0 (2.1)</b>								
Chloride	1.8	1.0		mg/L	1	07/14/2021 1655	07/15/2021 0003	JG
Fluoride	ND	0.50		mg/L	1	07/14/2021 1655	07/15/2021 0003	JG
Nitrogen, Nitrate (As N)	0.92	0.50	H3	mg/L	1	07/14/2021 1655	07/15/2021 0003	JG
Nitrogen, Nitrite (As N)	0.10	0.10	H3	mg/L	1	07/14/2021 1655	07/15/2021 0003	JG
Phosphorus, Dissolved Orthophosphate (As P)	ND	0.50	H3	mg/L	1	07/14/2021 1655	07/15/2021 0003	JG
Sulfate	ND	5.0		mg/L	1	07/14/2021 1655	07/15/2021 0003	JG
<b>Calculation-Ion Balance</b>								
Anion	11.0			meq/L	1	07/30/2021 1139	07/30/2021 1143	ECK
Cation	1.06			meq/L	1	07/30/2021 1139	07/30/2021 1143	ECK
Cation/Anion, % Difference	82.4			meq/L	1	07/30/2021 1139	07/30/2021 1143	ECK
<b>Total Kjeldahl Nitrogen-PAI-DK01</b>								
Nitrogen, Total Kjeldahl	28	5.0		mg/L	10	07/19/2021 1600	07/20/2021 1313	JG
<b>Alkalinity-SM2320B</b>								
Alkalinity, Bicarbonate (As CaCO3)	530	2.0		mg/L	1	07/26/2021 1125	07/26/2021 1637	EJ
Alkalinity, Carbonate (As CaCO3)	ND	2.0		mg/L	1	07/26/2021 1125	07/26/2021 1637	EJ
Alkalinity, Hydroxide (As CaCO3)	ND	2.0		mg/L	1	07/26/2021 1125	07/26/2021 1637	EJ
Alkalinity, Phenolphthalein (As CaCO3)	ND	2.0		mg/L	1	07/26/2021 1125	07/26/2021 1637	EJ
Alkalinity, Total (As CaCO3)	530	2.0		mg/L	1	07/26/2021 1125	07/26/2021 1637	EJ
<b>Specific Conductance-SM2510 B</b>								
Conductivity	220	0.10		µmhos/cm	1	07/29/2021 1635	07/29/2021 1712	CWB
<b>Total Dissolved Solids (Residue, Filterable)-SM2540 C</b>								
Total Dissolved Solids (Residue, Filterable)	420	20		mg/L	1	07/16/2021 0832	07/21/2021 1713	JG
<b>Total Suspended Solids (Residue, Non-Filterable)-SM2540 D</b>								
Total Suspended Solids	10000	10		mg/L	1	07/16/2021 0939	07/17/2021 1230	EJ
<b>Ammonia as N-SM4500-NH3 B,C</b>								

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21G0388  
**Lab Sample ID:** 21G0388-04

**Client Sample ID:** DCD-071221  
**Collection Date/Time:** 07/12/2021 2245  
**Matrix:** Storm Water  
**Order Name:** Baseline Stormwater Monitoring

Analyses	Result	PQL	Qual	Units	DF	Prep Date	Analysis Date	Analyst
Nitrogen, Ammonia (As N)	ND	0.50		mg/L	1	07/22/2021 0800	07/22/2021 1320	JG
<b>Silica-SM4500-SiO2 C</b>								
Silica	9.3	2.0		mg/L	1	07/28/2021 1230	07/28/2021 1710	JG

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21G0388  
**Date Received:** 07/14/2021

**QC Summary**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Qual
<b>Batch 2107203 - E 200.7 (4.4)</b>									
<b>Blank (2107203-BLK1)</b>				Prepared & Analyzed: 07/22/2021					
Boron	0.042	0.10	mg/L						
Calcium	ND	4.0	mg/L						
Iron	ND	0.30	mg/L						
Magnesium	ND	3.0	mg/L						
Potassium	ND	5.0	mg/L						
Silica	ND	0.20	mg/L						
Sodium	ND	5.0	mg/L						
<b>LCS (2107203-BS1)</b>				Prepared & Analyzed: 07/22/2021					
Boron	0.99	0.10	mg/L	1.000		99	85-115		
Calcium	10	4.0	mg/L	10.00		101	85-115		
Iron	0.95	0.30	mg/L	1.000		95	85-115		
Magnesium	9.9	3.0	mg/L	10.00		99	85-115		
Potassium	10	5.0	mg/L	10.00		101	85-115		
Sodium	10	5.0	mg/L	10.00		103	85-115		
<b>LCS (2107203-BS2)</b>				Prepared & Analyzed: 07/22/2021					
Silica	10	0.20	mg/L	10.00		100	85-115		
<b>LCS Dup (2107203-BSD1)</b>				Prepared & Analyzed: 07/22/2021					
Boron	0.97	0.10	mg/L	1.000		97	85-115	2	20
Calcium	10	4.0	mg/L	10.00		101	85-115	0.7	20
Iron	0.98	0.30	mg/L	1.000		98	85-115	3	20
Magnesium	9.9	3.0	mg/L	10.00		99	85-115	0.8	20
Potassium	10	5.0	mg/L	10.00		100	85-115	1	20
Sodium	10	5.0	mg/L	10.00		102	85-115	0.8	20
<b>LCS Dup (2107203-BSD2)</b>				Prepared & Analyzed: 07/22/2021					
Silica	9.7	0.20	mg/L	10.00		97	85-115	3	20
<b>Matrix Spike (2107203-MS1)</b>				<b>Source: 21G0237-04</b>		Prepared & Analyzed: 07/22/2021			
Boron	1.1	0.10	mg/L	1.000	0.053	102	70-130		
Calcium	28	4.0	mg/L	10.00	17	106	70-130		
Iron	1.1	0.30	mg/L	1.000	0.0036	105	70-130		
Magnesium	12	3.0	mg/L	10.00	1.7	104	70-130		
Potassium	14	5.0	mg/L	10.00	3.3	107	70-130		
Sodium	12	5.0	mg/L	10.00	ND	116	70-130		
<b>Matrix Spike (2107203-MS2)</b>				<b>Source: 21G0309-05</b>		Prepared & Analyzed: 07/22/2021			
Boron	1.0	0.10	mg/L	1.000	0.061	98	70-130		
Calcium	35	4.0	mg/L	10.00	27	85	70-130		
Iron	1.0	0.30	mg/L	1.000	ND	100	70-130		
Magnesium	13	3.0	mg/L	10.00	2.9	99	70-130		
Potassium	15	5.0	mg/L	10.00	5.5	97	70-130		
Sodium	12	5.0	mg/L	10.00	1.3	103	70-130		
<b>Matrix Spike (2107203-MS3)</b>				<b>Source: 21G0237-04</b>		Prepared & Analyzed: 07/22/2021			
Silica	12	0.20	mg/L	10.00	2.5	98	70-130		

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21G0388  
**Date Received:** 07/14/2021

**QC Summary**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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**Batch 2107203 - E 200.7 (4.4)**

Matrix Spike (2107203-MS4)	Source: 21G0309-05	Prepared & Analyzed: 07/22/2021				
Silica	20	0.20 mg/L	10.00	11	94	70-130

**Batch 2107209 - E 200.8 (5.4)**

Blank (2107209-BLK1)	Prepared: 07/19/2021	Analyzed: 07/26/2021
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Aluminum	ND	0.0400	mg/L			
Antimony	ND	0.00050	mg/L			
Arsenic	ND	0.00050	mg/L			
Barium	ND	0.00050	mg/L			
Beryllium	ND	0.00025	mg/L			
Cadmium	ND	0.00025	mg/L			
Chromium	ND	0.00050	mg/L			
Cobalt	ND	0.00025	mg/L			
Copper	ND	0.00050	mg/L			
Lead	ND	0.00050	mg/L			
Manganese	ND	0.00025	mg/L			
Molybdenum	ND	0.00025	mg/L			
Nickel	ND	0.00050	mg/L			
Selenium	ND	0.0025	mg/L			
Silver	0.00015	0.00050	mg/L			
Thallium	ND	0.00050	mg/L			
Zinc	ND	0.040	mg/L			

**LCS (2107209-BS1)**

Prepared: 07/19/2021 Analyzed: 07/26/2021

Aluminum	0.102	0.0400	mg/L	0.1000	102	85-115
Antimony	0.050	0.00050	mg/L	0.05000	100	85-115
Arsenic	0.051	0.00050	mg/L	0.05000	101	85-115
Barium	0.050	0.00050	mg/L	0.05000	99	85-115
Beryllium	0.050	0.00025	mg/L	0.05000	100	85-115
Cadmium	0.050	0.00025	mg/L	0.05000	99	85-115
Chromium	0.051	0.00050	mg/L	0.05000	103	85-115
Cobalt	0.050	0.00025	mg/L	0.05000	101	85-115
Copper	0.050	0.00050	mg/L	0.05000	99	85-115
Lead	0.050	0.00050	mg/L	0.05000	100	85-115
Manganese	0.050	0.00025	mg/L	0.05000	101	85-115
Molybdenum	0.051	0.00025	mg/L	0.05000	102	85-115
Nickel	0.049	0.00050	mg/L	0.05000	98	85-115
Selenium	0.051	0.0025	mg/L	0.05000	103	85-115
Silver	0.050	0.00050	mg/L	0.05000	100	85-115
Thallium	0.049	0.00050	mg/L	0.05000	99	85-115
Zinc	0.10	0.040	mg/L	0.1000	103	85-115

Client: Rosemont Copper Company  
 Project: Baseline Stormwater Monitoring  
 Work Order: 21G0388  
 Date Received: 07/14/2021

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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Batch 2107209 - E 200.8 (5.4)

LCS Dup (2107209-BSD1)

Prepared: 07/19/2021 Analyzed: 07/26/2021

Aluminum	0.102	0.0400	mg/L	0.1000		102	85-115	0.04	20	
Antimony	0.050	0.00050	mg/L	0.05000		99	85-115	1	20	
Arsenic	0.050	0.00050	mg/L	0.05000		100	85-115	1	20	
Barium	0.049	0.00050	mg/L	0.05000		98	85-115	0.7	20	
Beryllium	0.050	0.00025	mg/L	0.05000		100	85-115	0.4	20	
Cadmium	0.050	0.00025	mg/L	0.05000		100	85-115	0.5	20	
Chromium	0.051	0.00050	mg/L	0.05000		102	85-115	0.2	20	
Cobalt	0.050	0.00025	mg/L	0.05000		101	85-115	0.3	20	
Copper	0.050	0.00050	mg/L	0.05000		99	85-115	0.02	20	
Lead	0.050	0.00050	mg/L	0.05000		100	85-115	0.3	20	
Manganese	0.050	0.00025	mg/L	0.05000		100	85-115	0.8	20	
Molybdenum	0.049	0.00025	mg/L	0.05000		99	85-115	3	20	
Nickel	0.049	0.00050	mg/L	0.05000		98	85-115	0.6	20	
Selenium	0.050	0.0025	mg/L	0.05000		101	85-115	2	20	
Silver	0.050	0.00050	mg/L	0.05000		100	85-115	0.3	20	
Thallium	0.050	0.00050	mg/L	0.05000		100	85-115	0.7	20	
Zinc	0.10	0.040	mg/L	0.1000		101	85-115	2	20	

Matrix Spike (2107209-MS1)

Source: 21G0384-01

Prepared: 07/19/2021 Analyzed: 07/26/2021

Aluminum	ND	0.400	mg/L	0.1000	ND		70-130			M2
Antimony	0.063	0.00050	mg/L	0.05000	0.000098	125	70-130			
Arsenic	0.065	0.00050	mg/L	0.05000	0.0015	127	70-130			
Barium	0.16	0.00050	mg/L	0.05000	0.10	120	70-130			
Beryllium	0.044	0.0025	mg/L	0.05000	ND	87	70-130			
Cadmium	0.058	0.00025	mg/L	0.05000	ND	117	70-130			
Chromium	0.059	0.00050	mg/L	0.05000	0.00025	118	70-130			
Cobalt	0.057	0.00025	mg/L	0.05000	0.000087	113	70-130			
Copper	0.054	0.00050	mg/L	0.05000	0.0015	104	70-130			
Lead	0.061	0.00050	mg/L	0.05000	0.00017	121	70-130			
Manganese	0.086	0.00025	mg/L	0.05000	0.028	117	70-130			
Molybdenum	0.062	0.00025	mg/L	0.05000	0.0019	120	70-130			
Nickel	0.054	0.00050	mg/L	0.05000	0.0012	106	70-130			
Selenium	0.067	0.0025	mg/L	0.05000	0.0015	131	70-130			M6
Silver	0.050	0.00050	mg/L	0.05000	0.00018	101	70-130			
Thallium	0.061	0.00050	mg/L	0.05000	ND	122	70-130			
Zinc	0.90	0.40	mg/L	0.1000	0.87	29	70-130			M2

**Client:** Rosemont Copper Company  
**Project:** Baseline Stormwater Monitoring  
**Work Order:** 21G0388  
**Date Received:** 07/14/2021

**QC Summary**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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**Batch 2107209 - E 200.8 (5.4)**

Matrix Spike (2107209-MS2)		Source: 21G0388-01		Prepared: 07/19/2021		Analyzed: 07/26/2021	
Aluminum	0.133	0.0400	mg/L	0.1000	0.0237	110	70-130
Antimony	0.064	0.00050	mg/L	0.05000	0.0021	124	70-130
Arsenic	0.067	0.00050	mg/L	0.05000	0.0027	129	70-130
Barium	0.13	0.00050	mg/L	0.05000	0.068	122	70-130
Beryllium	0.062	0.00025	mg/L	0.05000	0.000018	124	70-130
Cadmium	0.063	0.00025	mg/L	0.05000	ND	125	70-130
Chromium	0.060	0.00050	mg/L	0.05000	0.00037	119	70-130
Cobalt	0.060	0.00025	mg/L	0.05000	0.00095	117	70-130
Copper	0.066	0.00050	mg/L	0.05000	0.0087	115	70-130
Lead	0.063	0.00050	mg/L	0.05000	0.00085	124	70-130
Manganese	0.38	0.00025	mg/L	0.05000	0.32	119	70-130
Molybdenum	0.065	0.00025	mg/L	0.05000	0.0030	123	70-130
Nickel	0.058	0.00050	mg/L	0.05000	0.0014	113	70-130
Selenium	0.068	0.0025	mg/L	0.05000	0.00029	136	70-130
Silver	0.058	0.00050	mg/L	0.05000	0.00032	115	70-130
Thallium	0.062	0.00050	mg/L	0.05000	ND	124	70-130
Zinc	0.12	0.040	mg/L	0.1000	0.0028	120	70-130

M6

**Batch 2107252 - E200.7 (4.4)**

Blank (2107252-BLK1)				Prepared: 07/21/2021		Analyzed: 07/23/2021	
Boron	0.031	0.10	mg/L				
Calcium	ND	4.0	mg/L				
Iron	ND	0.30	mg/L				
Magnesium	ND	3.0	mg/L				
Potassium	ND	5.0	mg/L				
Silica	0.018	0.20	mg/L				
Sodium	ND	5.0	mg/L				

LCS (2107252-BS1)				Prepared: 07/21/2021		Analyzed: 07/23/2021	
Boron	1.0	0.10	mg/L	1.000	103	85-115	
Calcium	11	4.0	mg/L	10.00	109	85-115	
Iron	1.0	0.30	mg/L	1.000	100	85-115	
Magnesium	11	3.0	mg/L	10.00	108	85-115	
Potassium	11	5.0	mg/L	10.00	107	85-115	
Sodium	11	5.0	mg/L	10.00	111	85-115	

LCS (2107252-BS2)				Prepared: 07/21/2021		Analyzed: 07/23/2021	
Silica	9.5	0.20	mg/L	10.00	95	85-115	

LCS Dup (2107252-BSD1)				Prepared: 07/21/2021		Analyzed: 07/23/2021	
Boron	1.0	0.10	mg/L	1.000	100	85-115	2 20
Calcium	11	4.0	mg/L	10.00	107	85-115	3 20
Iron	1.0	0.30	mg/L	1.000	101	85-115	0.2 20
Magnesium	11	3.0	mg/L	10.00	109	85-115	0.2 20
Potassium	10	5.0	mg/L	10.00	105	85-115	3 20
Sodium	11	5.0	mg/L	10.00	110	85-115	0.1 20

LCS Dup (2107252-BSD2)				Prepared: 07/21/2021		Analyzed: 07/23/2021	
Silica	9.2	0.20	mg/L	10.00	92	85-115	4 20

Client: Rosemont Copper Company  
 Project: Baseline Stormwater Monitoring  
 Work Order: 21G0388  
 Date Received: 07/14/2021

QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
<b>Batch 2107252 - E200.7 (4.4)</b>										
<b>Matrix Spike (2107252-MS1)</b>		<b>Source: 21G0292-05</b>			Prepared: 07/21/2021 Analyzed: 07/23/2021					
Boron	1.1	0.10	mg/L	1.000	0.14	99	70-130			
Calcium	130	4.0	mg/L	10.00	120	127	70-130			
Iron	1.1	0.30	mg/L	1.000	0.055	109	70-130			
Magnesium	28	3.0	mg/L	10.00	17	109	70-130			
Potassium	15	5.0	mg/L	10.00	4.5	108	70-130			
Sodium	110	5.0	mg/L	10.00	95	106	70-130			
<b>Matrix Spike (2107252-MS2)</b>		<b>Source: 21G0391-01</b>			Prepared: 07/21/2021 Analyzed: 07/23/2021					
Boron	1.4	0.10	mg/L	1.000	0.33	103	70-130			
Calcium	180	4.0	mg/L	10.00	170	120	70-130			
Iron	1.1	0.30	mg/L	1.000	0.064	100	70-130			
Magnesium	34	3.0	mg/L	10.00	22	119	70-130			
Potassium	29	5.0	mg/L	10.00	17	119	70-130			
<b>Matrix Spike (2107252-MS3)</b>		<b>Source: 21G0292-05</b>			Prepared: 07/21/2021 Analyzed: 07/23/2021					
Silica	44	0.20	mg/L	10.00	33	107	70-130			
<b>Batch 2107280 - E 245.1</b>										
<b>Blank (2107280-BLK1)</b>					Prepared & Analyzed: 07/26/2021					
Mercury	ND	0.0010	mg/L							
<b>LCS (2107280-BS1)</b>					Prepared & Analyzed: 07/26/2021					
Mercury	0.0051	0.0010	mg/L	0.005000		102	85-115			
<b>LCS Dup (2107280-BSD1)</b>					Prepared & Analyzed: 07/26/2021					
Mercury	0.0050	0.0010	mg/L	0.005000		100	85-115	2	20	
<b>Matrix Spike (2107280-MS1)</b>		<b>Source: 21G0384-01</b>			Prepared & Analyzed: 07/26/2021					
Mercury	0.0049	0.0010	mg/L	0.005000	0.000077	97	70-130			
<b>Matrix Spike (2107280-MS2)</b>		<b>Source: 21G0384-02</b>			Prepared & Analyzed: 07/26/2021					
Mercury	0.0050	0.0010	mg/L	0.005000	ND	101	70-130			
<b>Matrix Spike Dup (2107280-MSD1)</b>		<b>Source: 21G0384-01</b>			Prepared & Analyzed: 07/26/2021					
Mercury	0.0049	0.0010	mg/L	0.005000	0.000077	96	70-130	1	20	
<b>Matrix Spike Dup (2107280-MSD2)</b>		<b>Source: 21G0384-02</b>			Prepared & Analyzed: 07/26/2021					
Mercury	0.0050	0.0010	mg/L	0.005000	ND	100	70-130	0.4	20	
<b>Batch 2107286 - E200.8 (5.4)</b>										

Client: Rosemont Copper Company  
 Project: Baseline Stormwater Monitoring  
 Work Order: 21G0388  
 Date Received: 07/14/2021

**QC Summary**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
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**Batch 2107286 - E200.8 (5.4)**

**Blank (2107286-BLK1)**

Prepared: 07/23/2021 Analyzed: 07/26/2021

Aluminum	ND	0.0400	mg/L							
Antimony	ND	0.00050	mg/L							
Arsenic	ND	0.00050	mg/L							
Barium	ND	0.00050	mg/L							
Beryllium	ND	0.00025	mg/L							
Cadmium	ND	0.00025	mg/L							
Chromium	ND	0.00050	mg/L							
Cobalt	ND	0.000250	mg/L							
Copper	ND	0.00050	mg/L							
Lead	ND	0.00050	mg/L							
Manganese	ND	0.00025	mg/L							
Molybdenum	ND	0.00025	mg/L							
Nickel	ND	0.00050	mg/L							
Selenium	ND	0.0025	mg/L							
Silver	ND	0.00050	mg/L							
Thallium	0.000024	0.00050	mg/L							
Uranium	ND	0.00050	mg/L							
Zinc	ND	0.040	mg/L							

**LCS (2107286-BS1)**

Prepared: 07/23/2021 Analyzed: 07/26/2021

Aluminum	0.102	0.0400	mg/L	0.1000		102	85-115			
Antimony	0.049	0.00050	mg/L	0.05000		98	85-115			
Arsenic	0.050	0.00050	mg/L	0.05000		100	85-115			
Barium	0.048	0.00050	mg/L	0.05000		96	85-115			
Beryllium	0.050	0.00025	mg/L	0.05000		100	85-115			
Cadmium	0.050	0.00025	mg/L	0.05000		101	85-115			
Chromium	0.049	0.00050	mg/L	0.05000		98	85-115			
Cobalt	0.0482	0.000250	mg/L	0.05000		96	85-115			
Copper	0.048	0.00050	mg/L	0.05000		97	85-115			
Lead	0.049	0.00050	mg/L	0.05000		97	85-115			
Manganese	0.050	0.00025	mg/L	0.05000		101	85-115			
Molybdenum	0.048	0.00025	mg/L	0.05000		95	85-115			
Nickel	0.049	0.00050	mg/L	0.05000		97	85-115			
Selenium	0.055	0.0025	mg/L	0.05000		110	85-115			
Silver	0.049	0.00050	mg/L	0.05000		99	85-115			
Thallium	0.048	0.00050	mg/L	0.05000		95	85-115			
Uranium	0.048	0.00050	mg/L	0.05000		96	85-115			
Zinc	0.11	0.040	mg/L	0.1000		108	85-115			

Client: Rosemont Copper Company  
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QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
<b>Batch 2107286 - E200.8 (5.4)</b>										
<b>LCS Dup (2107286-BSD1)</b>				Prepared: 07/23/2021 Analyzed: 07/26/2021						
Aluminum	0.103	0.0400	mg/L	0.1000		103	85-115	1	20	
Antimony	0.050	0.00050	mg/L	0.05000		100	85-115	1	20	
Arsenic	0.051	0.00050	mg/L	0.05000		102	85-115	2	20	
Barium	0.049	0.00050	mg/L	0.05000		98	85-115	2	20	
Beryllium	0.051	0.00025	mg/L	0.05000		102	85-115	2	20	
Cadmium	0.052	0.00025	mg/L	0.05000		104	85-115	3	20	
Chromium	0.049	0.00050	mg/L	0.05000		98	85-115	0.6	20	
Cobalt	0.0496	0.000250	mg/L	0.05000		99	85-115	3	20	
Copper	0.050	0.00050	mg/L	0.05000		99	85-115	3	20	
Lead	0.050	0.00050	mg/L	0.05000		99	85-115	2	20	
Manganese	0.051	0.00025	mg/L	0.05000		102	85-115	2	20	
Molybdenum	0.050	0.00025	mg/L	0.05000		99	85-115	4	20	
Nickel	0.049	0.00050	mg/L	0.05000		99	85-115	2	20	
Selenium	0.055	0.0025	mg/L	0.05000		111	85-115	0.8	20	
Silver	0.051	0.00050	mg/L	0.05000		101	85-115	2	20	
Thallium	0.049	0.00050	mg/L	0.05000		98	85-115	3	20	
Uranium	0.049	0.00050	mg/L	0.05000		99	85-115	3	20	
Zinc	0.11	0.040	mg/L	0.1000		110	85-115	2	20	

<b>Matrix Spike (2107286-MS1)</b>				<b>Source: 21G0391-01</b>		Prepared: 07/23/2021 Analyzed: 07/26/2021				
Aluminum	0.134	0.0400	mg/L	0.1000	0.0363	97	70-130			
Antimony	0.050	0.00050	mg/L	0.05000	0.00061	99	70-130			
Arsenic	0.054	0.00050	mg/L	0.05000	0.0023	104	70-130			
Barium	0.098	0.00050	mg/L	0.05000	0.047	101	70-130			
Beryllium	0.050	0.00025	mg/L	0.05000	ND	101	70-130			
Cadmium	0.047	0.00025	mg/L	0.05000	0.00010	94	70-130			
Chromium	0.046	0.00050	mg/L	0.05000	0.00044	92	70-130			
Cobalt	0.0464	0.000250	mg/L	0.05000	0.000467	92	70-130			
Copper	0.049	0.00050	mg/L	0.05000	0.0069	84	70-130			
Lead	0.051	0.00050	mg/L	0.05000	0.00030	102	70-130			
Manganese	0.060	0.00025	mg/L	0.05000	0.013	94	70-130			
Molybdenum	0.053	0.00025	mg/L	0.05000	0.00054	105	70-130			
Nickel	0.047	0.00050	mg/L	0.05000	0.0031	88	70-130			
Selenium	0.051	0.0025	mg/L	0.05000	0.00076	100	70-130			
Silver	0.044	0.00050	mg/L	0.05000	ND	88	70-130			
Thallium	0.051	0.00050	mg/L	0.05000	0.00026	102	70-130			
Uranium	0.074	0.00050	mg/L	0.05000	0.011	127	70-130			
Zinc	0.15	0.040	mg/L	0.1000	0.059	95	70-130			

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QC Summary

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
<b>Batch 2107286 - E200.8 (5.4)</b>										
<b>Matrix Spike (2107286-MS2)</b>			<b>Source: 21G0428-01</b>		Prepared: 07/23/2021 Analyzed: 07/26/2021					
Aluminum	0.156	0.0400	mg/L	0.1000	0.0607	95	70-130			
Antimony	0.050	0.00050	mg/L	0.05000	0.0011	97	70-130			
Arsenic	0.055	0.00050	mg/L	0.05000	0.0052	99	70-130			
Barium	0.073	0.00050	mg/L	0.05000	0.024	99	70-130			
Beryllium	0.048	0.00025	mg/L	0.05000	ND	96	70-130			
Cadmium	0.044	0.00025	mg/L	0.05000	0.000073	89	70-130			
Chromium	0.044	0.00050	mg/L	0.05000	0.00040	88	70-130			
Cobalt	0.0453	0.000250	mg/L	0.05000	0.000653	89	70-130			
Copper	0.053	0.00050	mg/L	0.05000	0.013	80	70-130			
Lead	0.050	0.00050	mg/L	0.05000	0.00058	99	70-130			
Manganese	0.053	0.00025	mg/L	0.05000	0.0071	92	70-130			
Molybdenum	0.079	0.00025	mg/L	0.05000	0.027	103	70-130			
Nickel	0.049	0.00050	mg/L	0.05000	0.0044	89	70-130			
Selenium	0.048	0.0025	mg/L	0.05000	ND	96	70-130			
Silver	0.041	0.00050	mg/L	0.05000	ND	82	70-130			
Thallium	0.049	0.00050	mg/L	0.05000	0.00015	98	70-130			
Uranium	0.073	0.00050	mg/L	0.05000	0.012	122	70-130			
Zinc	0.12	0.040	mg/L	0.1000	0.024	93	70-130			

**Batch 2107303 - E245.1**

<b>Blank (2107303-BLK1)</b>			Prepared & Analyzed: 07/27/2021							
Mercury	ND	0.0010	mg/L							
<b>LCS (2107303-BS1)</b>			Prepared & Analyzed: 07/27/2021							
Mercury	0.0050	0.0010	mg/L	0.005000	101	85-115				
<b>LCS Dup (2107303-BSD1)</b>			Prepared & Analyzed: 07/27/2021							
Mercury	0.0049	0.0010	mg/L	0.005000	98	85-115	3	20		
<b>Matrix Spike (2107303-MS1)</b>			<b>Source: 21G0395-01</b>		Prepared & Analyzed: 07/27/2021					
Mercury	0.0049	0.0010	mg/L	0.005000	ND	99	70-130			
<b>Matrix Spike Dup (2107303-MSD1)</b>			<b>Source: 21G0395-01</b>		Prepared & Analyzed: 07/27/2021					
Mercury	0.0050	0.0010	mg/L	0.005000	ND	100	70-130	1	20	

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**QC Summary**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Qual
<b>Batch 2107173 - SM2540 C</b>									
<b>Duplicate (2107173-DUP1)</b>		<b>Source: 21G0277-01</b>		Prepared: 07/16/2021 Analyzed: 07/22/2021					
Total Dissolved Solids (Residue, Filterable)	1800	20	mg/L		1900		3	5	
<b>Duplicate (2107173-DUP2)</b>		<b>Source: 21G0315-11</b>		Prepared: 07/16/2021 Analyzed: 07/22/2021					
Total Dissolved Solids (Residue, Filterable)	620	20	mg/L		620		0	5	
<b>Batch 2107188 - SM2540 D</b>									
<b>Duplicate (2107188-DUP1)</b>		<b>Source: 21G0361-01</b>		Prepared: 07/16/2021 Analyzed: 07/17/2021					
Total Suspended Solids	10	10	mg/L		10		0	5	Q9
<b>Duplicate (2107188-DUP2)</b>		<b>Source: 21G0341-02</b>		Prepared: 07/16/2021 Analyzed: 07/17/2021					
Total Suspended Solids	ND	10	mg/L		ND			5	Q9
<b>Batch 2107201 - E150.1</b>									
<b>Duplicate (2107201-DUP1)</b>		<b>Source: 21G0352-06</b>		Prepared & Analyzed: 07/16/2021					
pH (pH Units)	8.0		-		7.9		0.1	200	H5
Temperature (°C)	23		-		23		0.4	200	H5
<b>Duplicate (2107201-DUP2)</b>		<b>Source: 21G0388-04</b>		Prepared & Analyzed: 07/16/2021					
pH (pH Units)	8.0		-		7.6		5	200	H5
Temperature (°C)	21		-		24		16	200	H5
<b>Batch 2107227 - PAI-DK01</b>									
<b>Blank (2107227-BLK1)</b>				Prepared: 07/19/2021 Analyzed: 07/20/2021					
Nitrogen, Total Kjeldahl	ND	0.50	mg/L						
<b>LCS (2107227-BS1)</b>				Prepared: 07/19/2021 Analyzed: 07/20/2021					
Nitrogen, Total Kjeldahl	5.1	0.50	mg/L	5.000		103	80-120		
<b>LCS Dup (2107227-BSD1)</b>				Prepared: 07/19/2021 Analyzed: 07/20/2021					
Nitrogen, Total Kjeldahl	5.1	0.50	mg/L	5.000		102	80-120	0.8	20
<b>Matrix Spike (2107227-MS1)</b>		<b>Source: 21G0316-01</b>		Prepared: 07/19/2021 Analyzed: 07/20/2021					
Nitrogen, Total Kjeldahl	59	5.0	mg/L	50.00	13	91	80-120		
<b>Matrix Spike (2107227-MS2)</b>		<b>Source: 21G0415-02</b>		Prepared: 07/19/2021 Analyzed: 07/20/2021					
Nitrogen, Total Kjeldahl	9.9	0.50	mg/L	5.000	5.0	97	80-120		
<b>Matrix Spike Dup (2107227-MSD1)</b>		<b>Source: 21G0316-01</b>		Prepared: 07/19/2021 Analyzed: 07/20/2021					
Nitrogen, Total Kjeldahl	59	5.0	mg/L	50.00	13	92	80-120	0.7	20
<b>Matrix Spike Dup (2107227-MSD2)</b>		<b>Source: 21G0415-02</b>		Prepared: 07/19/2021 Analyzed: 07/20/2021					
Nitrogen, Total Kjeldahl	9.9	0.50	mg/L	5.000	5.0	98	80-120	0.6	20
<b>Batch 2107265 - SM4500-NH3 B,C</b>									
<b>Blank (2107265-BLK1)</b>				Prepared & Analyzed: 07/22/2021					
Nitrogen, Ammonia (As N)	ND	0.50	mg/L						

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**QC Summary**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
<b>Batch 2107265 - SM4500-NH3 B,C</b>										
<b>LCS (2107265-BS1)</b>				Prepared & Analyzed: 07/22/2021						
Nitrogen, Ammonia (As N)	4.9	0.50	mg/L	5.000		98	90-110			
<b>LCS Dup (2107265-BSD1)</b>				Prepared & Analyzed: 07/22/2021						
Nitrogen, Ammonia (As N)	4.9	0.50	mg/L	5.000		97	90-110	0.9	10	
<b>Matrix Spike (2107265-MS1)</b>				Source: 21G0453-01		Prepared & Analyzed: 07/22/2021				
Nitrogen, Ammonia (As N)	4.9	0.50	mg/L	5.000	0.067	97	75-120			
<b>Matrix Spike (2107265-MS2)</b>				Source: 21G0458-01		Prepared & Analyzed: 07/22/2021				
Nitrogen, Ammonia (As N)	4.8	0.50	mg/L	5.000	0.045	95	75-120			
<b>Matrix Spike Dup (2107265-MSD1)</b>				Source: 21G0453-01		Prepared & Analyzed: 07/22/2021				
Nitrogen, Ammonia (As N)	4.9	0.50	mg/L	5.000	0.067	96	75-120	0.9	20	
<b>Matrix Spike Dup (2107265-MSD2)</b>				Source: 21G0458-01		Prepared & Analyzed: 07/22/2021				
Nitrogen, Ammonia (As N)	4.7	0.50	mg/L	5.000	0.045	94	75-120	1	20	
<b>Batch 2107271 - E180.1</b>										
<b>Duplicate (2107271-DUP1)</b>				Source: 21G0458-01		Prepared & Analyzed: 07/23/2021				
Turbidity	1.0	0.10	NTU		1.0			0	10	H3
<b>Duplicate (2107271-DUP2)</b>				Source: 21G0583-01		Prepared & Analyzed: 07/23/2021				
Turbidity	0.50	0.10	NTU		0.50			0	10	H3
<b>Batch 2107296 - SM2320B</b>										
<b>Blank (2107296-BLK1)</b>				Prepared & Analyzed: 07/26/2021						
Alkalinity, Bicarbonate (As CaCO3)	ND	2.0	mg/L							
Alkalinity, Carbonate (As CaCO3)	ND	2.0	mg/L							
Alkalinity, Hydroxide (As CaCO3)	ND	2.0	mg/L							
Alkalinity, Phenolphthalein (As CaCO3)	ND	2.0	mg/L							
Alkalinity, Total (As CaCO3)	ND	2.0	mg/L							
<b>LCS (2107296-BS1)</b>				Prepared & Analyzed: 07/26/2021						
Alkalinity, Total (As CaCO3)	230	2.0	mg/L	250.0		94	90-110			
<b>LCS Dup (2107296-BSD1)</b>				Prepared & Analyzed: 07/26/2021						
Alkalinity, Total (As CaCO3)	230	2.0	mg/L	250.0		94	90-110	0	10	
<b>Matrix Spike (2107296-MS1)</b>				Source: 21G0475-01		Prepared & Analyzed: 07/26/2021				
Alkalinity, Total (As CaCO3)	330	2.0	mg/L	250.0	100	92	70-130			
<b>Matrix Spike Dup (2107296-MSD1)</b>				Source: 21G0475-01		Prepared & Analyzed: 07/26/2021				
Alkalinity, Total (As CaCO3)	330	2.0	mg/L	250.0	100	92	70-130	0	10	
<b>Batch 2107335 - SM4500-SiO2 C</b>										
<b>Blank (2107335-BLK1)</b>				Prepared & Analyzed: 07/28/2021						
Silica	ND	2.0	mg/L							
<b>LCS (2107335-BS1)</b>				Prepared & Analyzed: 07/28/2021						
Silica	8.1	2.0	mg/L	8.000		101	90-110			

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**QC Summary**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
<b>Batch 2107335 - SM4500-SiO2 C</b>										
<b>LCS Dup (2107335-BSD1)</b>				Prepared & Analyzed: 07/28/2021						
Silica	8.3	2.0	mg/L	8.000		104	90-110	2	20	
<b>Matrix Spike (2107335-MS1)</b>				Source: 21G0609-02		Prepared & Analyzed: 07/28/2021				
Silica	66	10	mg/L	40.00	19	116	85-115			M1
<b>Matrix Spike Dup (2107335-MSD1)</b>				Source: 21G0609-02		Prepared & Analyzed: 07/28/2021				
Silica	63	10	mg/L	40.00	19	110	85-115	3	20	
<b>Batch 2107353 - SM2510 B</b>										
<b>LCS (2107353-BS1)</b>				Prepared & Analyzed: 07/29/2021						
Conductivity	150	0.10	µmhos/cm	141.2		103	0-200			
<b>LCS Dup (2107353-BSD1)</b>				Prepared & Analyzed: 07/29/2021						
Conductivity	150	0.10	µmhos/cm	141.2		104	0-200	0.7	200	
<b>Duplicate (2107353-DUP1)</b>				Source: 21G0546-01		Prepared & Analyzed: 07/29/2021				
Conductivity	4700	2.0	µmhos/cm		4800			0.8	10	

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**QC Summary**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qual
<b>Batch 2107166 - E300.0 (2.1)</b>										
<b>Blank (2107166-BLK1)</b>				Prepared & Analyzed: 07/14/2021						
Chloride	ND	1.0	mg/L							
Fluoride	ND	0.50	mg/L							
Nitrogen, Nitrate (As N)	ND	0.50	mg/L							
Nitrogen, Nitrite (As N)	ND	0.10	mg/L							
Phosphorus, Dissolved Orthophosphate (As P)	ND	0.50	mg/L							
Sulfate	ND	5.0	mg/L							
<b>LCS (2107166-BS1)</b>				Prepared & Analyzed: 07/14/2021						
Chloride	12	1.0	mg/L	12.50		96	90-110			
Fluoride	2.0	0.50	mg/L	2.000		98	90-110			
Nitrogen, Nitrate (As N)	4.9	0.50	mg/L	5.000		97	90-110			
Nitrogen, Nitrite (As N)	2.5	0.10	mg/L	2.500		100	90-110			
Phosphorus, Dissolved Orthophosphate (As P)	2.6	0.50	mg/L	2.500		104	90-110			
Sulfate	12	5.0	mg/L	12.50		98	90-110			
<b>LCS Dup (2107166-BSD1)</b>				Prepared & Analyzed: 07/14/2021						
Chloride	12	1.0	mg/L	12.50		96	90-110	0.04	10	
Fluoride	1.9	0.50	mg/L	2.000		97	90-110	0.8	10	
Nitrogen, Nitrate (As N)	4.9	0.50	mg/L	5.000		98	90-110	0.6	10	
Nitrogen, Nitrite (As N)	2.5	0.10	mg/L	2.500		100	90-110	0.3	10	
Phosphorus, Dissolved Orthophosphate (As P)	2.7	0.50	mg/L	2.500		108	90-110	4	10	
Sulfate	12	5.0	mg/L	12.50		99	90-110	0.6	10	

